

Pt and La carried on alumina, a catalyst of Rh and La carried on alumina, a catalyst of Au and La carried on alumina, a catalyst of Ir and La carried on alumina, a catalyst of Pd carried on alumina, a catalyst of Pt carried on alumina, a catalyst of Cu carried on alumina, a catalyst of Mn carried on alumina, a catalyst of Pd and W carried on titania and a catalyst of Co carried on alumina.

8. (Amended) A process for the decomposition of fluorine compounds as claimed in claim 1, wherein said gas having been decomposed by contacting with said catalyst for the decomposition of at least one of CO, SO<sub>2</sub>F<sub>2</sub> or N<sub>2</sub>O is put through water or an alkaline aqueous solution to remove hydrogen fluoride and a water-soluble component contained in said gas.

9. (Amended) A process for the decomposition of fluorine compounds as claimed in claim 1, wherein said fluorine compounds decomposition catalyst contains aluminum and nickel in the form of an oxide, and a ratio thereof in atomic ratio

is from 50 to 99 mol% for aluminium and from 50 to 1 mol% for nickel.

10. (Amended) A process for the decomposition of fluorine compounds as claimed in claim 1, wherein a reaction temperature for said a catalyst for the decomposition of at least one of CO, SO<sub>2</sub>F<sub>2</sub> or N<sub>2</sub>O is from 650 to 850°C.

16. (Amended) An apparatus for the decomposing a fluorine compounds as claimed in claim 12, wherein said catalyst for the decomposition of at least one of CO, SO<sub>2</sub>F<sub>2</sub> or N<sub>2</sub>O contains at least one selected from Pd, Pt, Cu, Mn, Fe, Co, Rh, Ir and Au in the form of a metal or an oxide.

17. (Amended) An apparatus for the decomposing a fluorine compounds as claimed in claim 12, wherein said catalyst for the decomposition of at least one of CO, SO<sub>2</sub>F<sub>2</sub> or N<sub>2</sub>O is selected from a catalyst of Pd and La carried on alumina, a catalyst of Pt and La carried on alumina, a catalyst of Rh and La carried on alumina, a catalyst of Au and La carried on alumina, a catalyst of Ir and La carried on alumina, a catalyst of Pd carried on alumina, a catalyst of Pt